FIG. 1

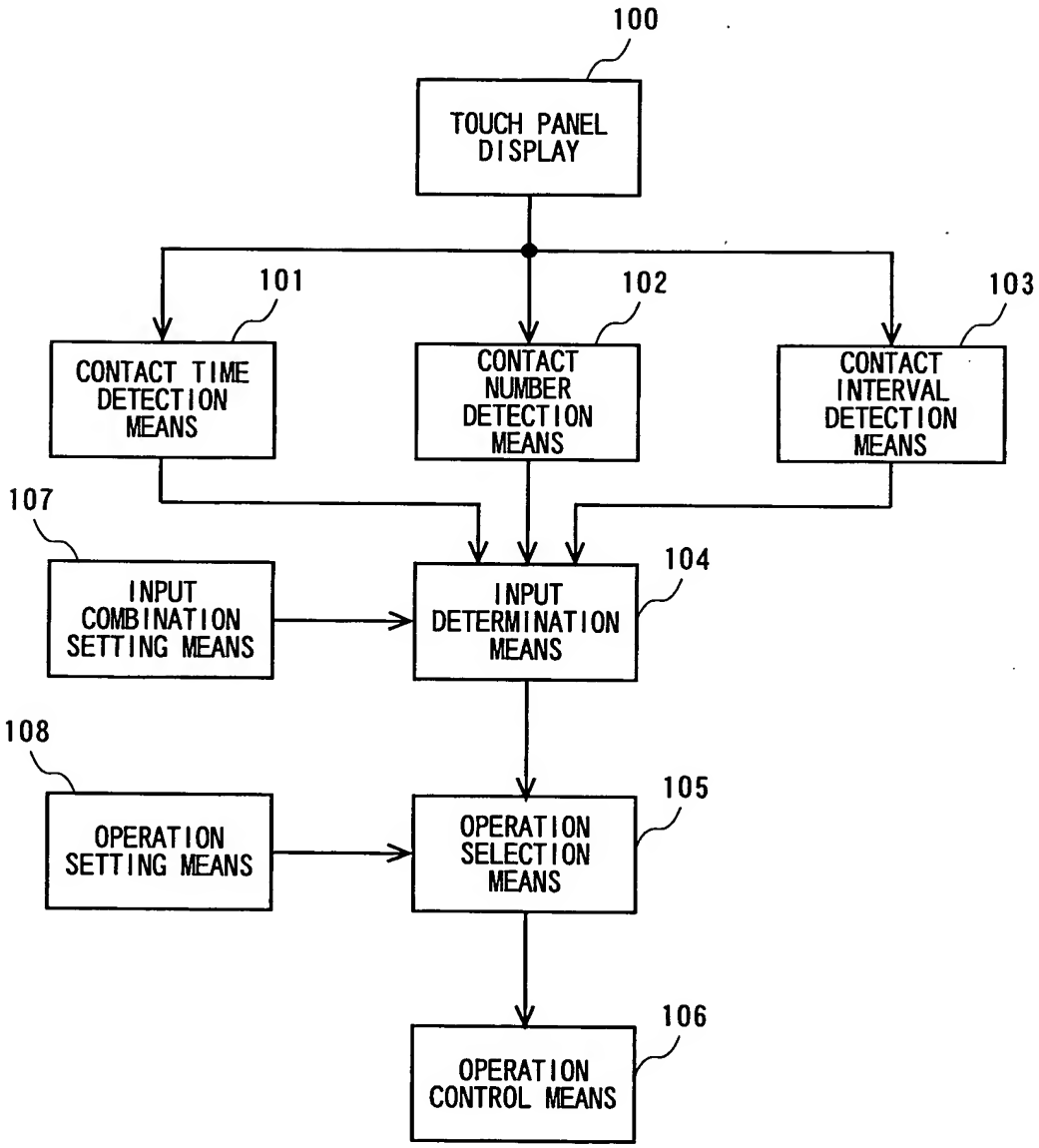

100
TOUCH PANEL DISPLAY
101
CONTACT TIME DETECTION MEANS
102
CONTACT NUMBER DETECTION MEANS
103
CONTACT INTERVAL DETECTION MEANS
107
INPUT COMBINATION SETTING MEANS
104
INPUT DETERMINATION MEANS
108
OPERATION SETTING MEANS
105
OPERATION SELECTION MEANS
106
OPERATION CONTROL MEANS

FIG. 2

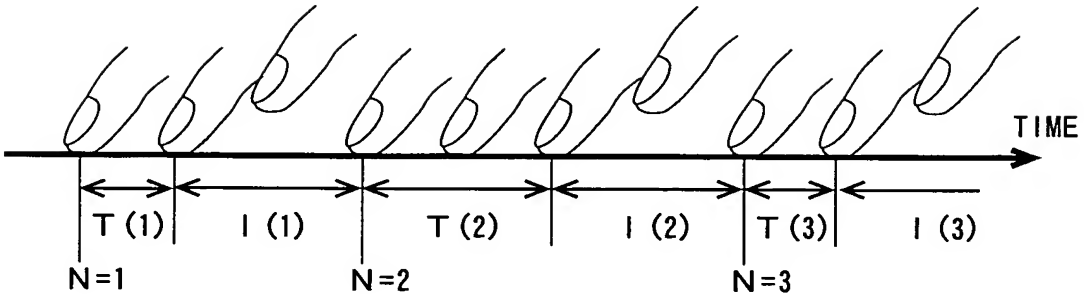


FIG. 3

COMMAND	N	T (1)	I (1)	T (2)	I (2)	T (3)	I (3)	T (4)	・・・
COMMAND A	2	SHORT	SHORT	SHORT					
COMMAND B	2	SHORT	LONG	SHORT					
COMMAND C	3	SHORT	SHORT	SHORT	SHORT	SHORT			
COMMAND D	4	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT	
COMMAND E	3	SHORT	SHORT	SHORT	SHORT	LONG			
COMMAND F	4	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT	LONG	
・ ・ ・									

FIG. 4

COMMAND	OPERATION
COMMAND A	START ROUTE NAVIGATION
COMMAND B	END ROUTE NAVIGATION
COMMAND C	ZOOM IN MAP TO ONE STEP LARGER IN SCALE
COMMAND D	ZOOM IN MAP TO TWO STEPS LARGER IN SCALE
COMMAND E	ZOOM OUT MAP TO ONE STEP SMALLER IN SCALE
COMMAND F	ZOOM OUT MAP TO TWO STEPS SMALLER IN SCALE
⋮	⋮

FIG. 5

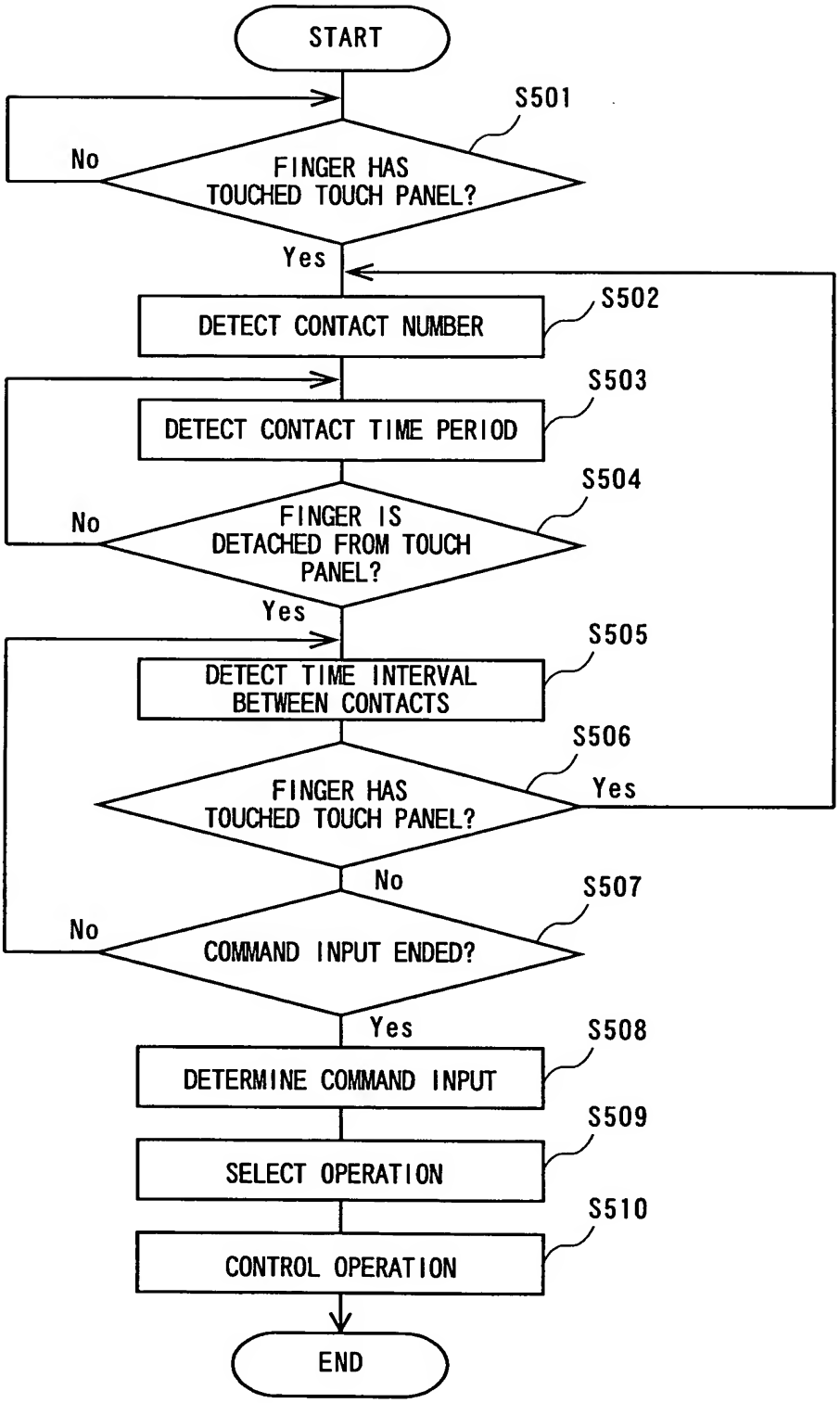

START
S501
FINGER HAS TOUCHED TOUCH PANEL?
No
Yes
S502
DETECT CONTACT NUMBER
S503
DETECT CONTACT TIME PERIOD
S504
FINGER IS DETACHED FROM TOUCH PANEL?
No
Yes
S505
DETECT TIME INTERVAL BETWEEN CONTACTS
S506
FINGER HAS TOUCHED TOUCH PANEL?
Yes
No
S507
COMMAND INPUT ENDED?
No
Yes
S508
DETERMINE COMMAND INPUT
S509
SELECT OPERATION
S510
CONTROL OPERATION
END

FIG. 6

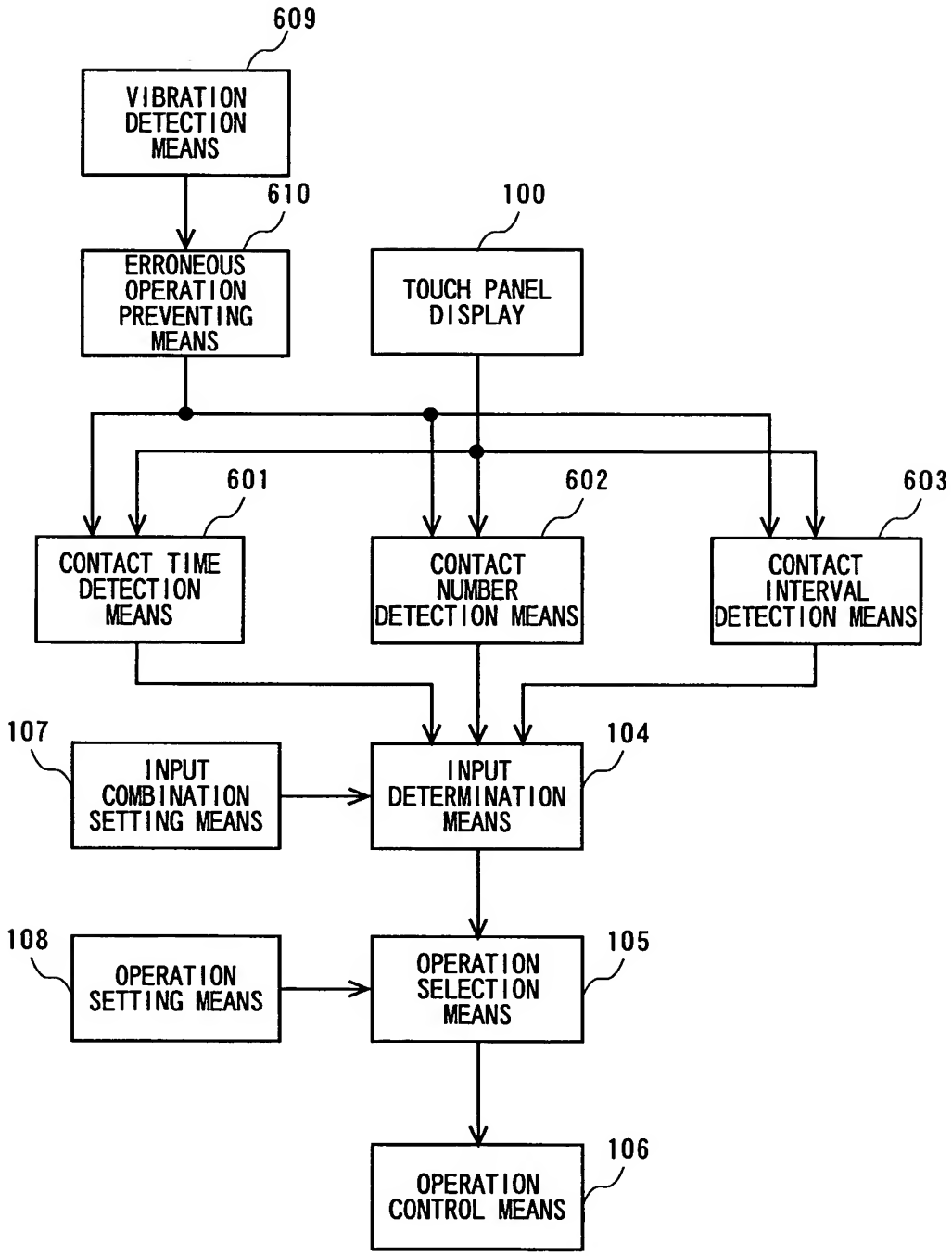

609
VIBRATION DETECTION MEANS
610
ERRONEOUS OPERATION PREVENTING MEANS
100
TOUCH PANEL DISPLAY
601
CONTACT TIME DETECTION MEANS
602
CONTACT NUMBER DETECTION MEANS
603
CONTACT INTERVAL DETECTION MEANS
107
INPUT COMBINATION SETTING MEANS
104
INPUT DETERMINATION MEANS
108
OPERATION SETTING MEANS
105
OPERATION SELECTION MEANS
106
OPERATION CONTROL MEANS

FIG. 7

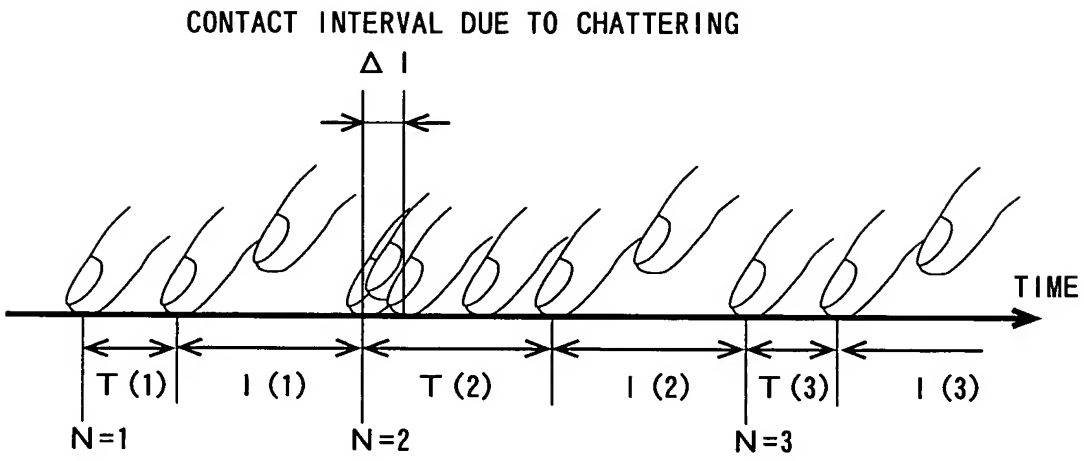


FIG. 8

	TIME INTERVAL BETWEEN CONTACTS TO BE DETERMINED AS CHATTERING
VIBRATION ABSENT	EQUAL TO OR SHORTER THAN 10 ms
VIBRATION PRESENT	EQUAL TO OR SHORTER THAN 100 ms

FIG. 9

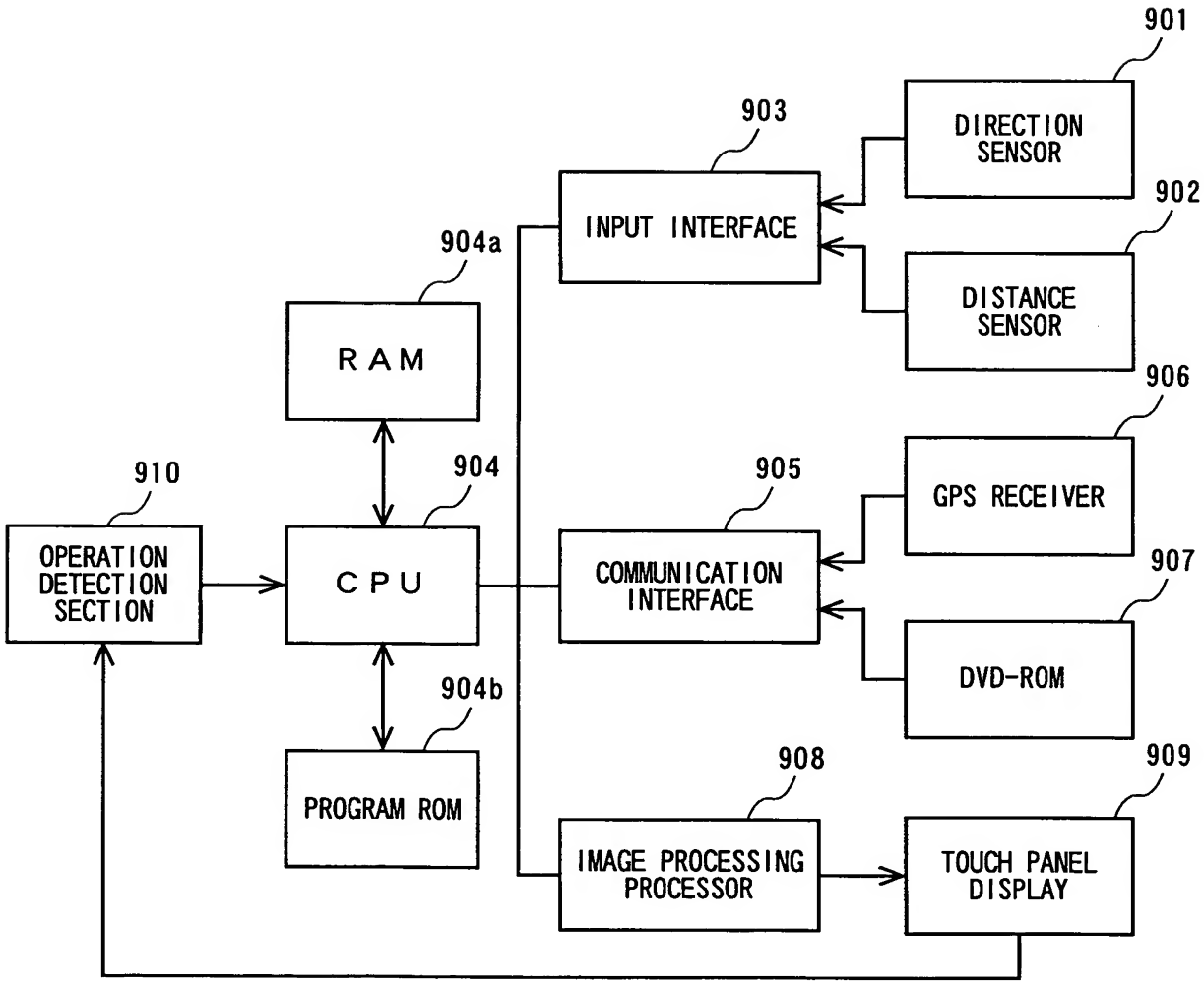

901
DIRECTION SENSOR
903
INPUT INTERFACE
902
DISTANCE SENSOR
904a
RAM
906
GPS RECEIVER
910
904
905
OPERATION DETECTION SECTION
CPU
COMMUNICATION INTERFACE
907
DVD-ROM
904b
908
909
PROGRAM ROM
IMAGE PROCESSING PROCESSOR
TOUCH PANEL DISPLAY

FIG. 10

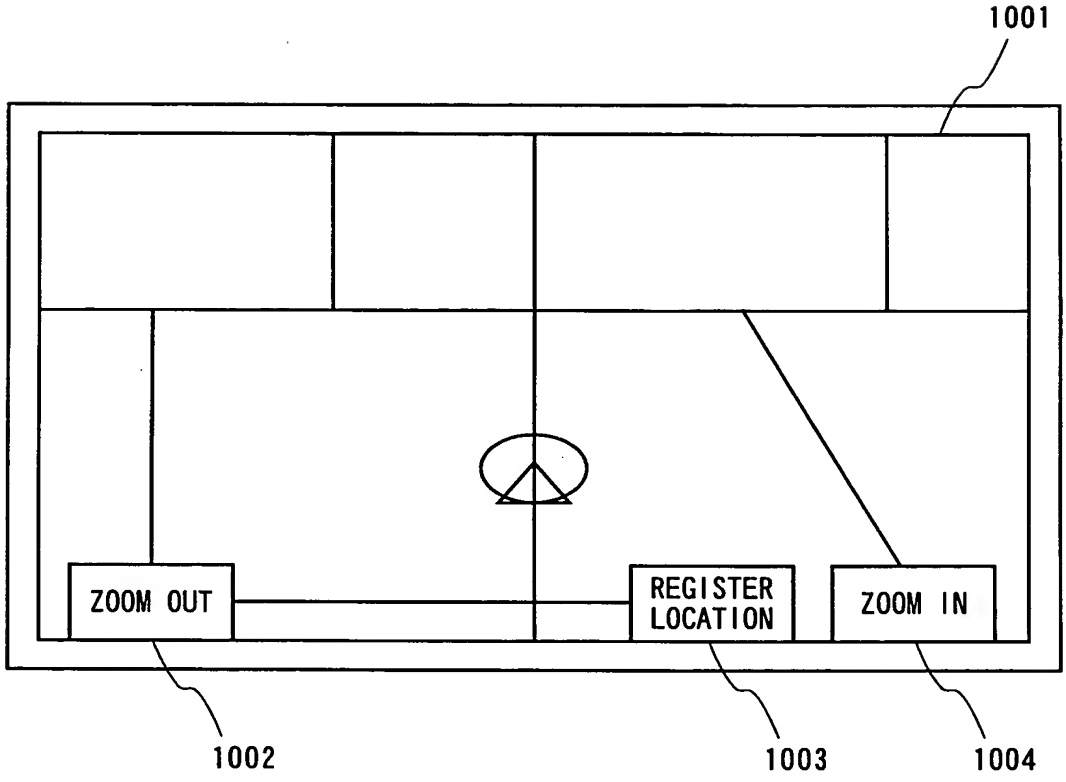
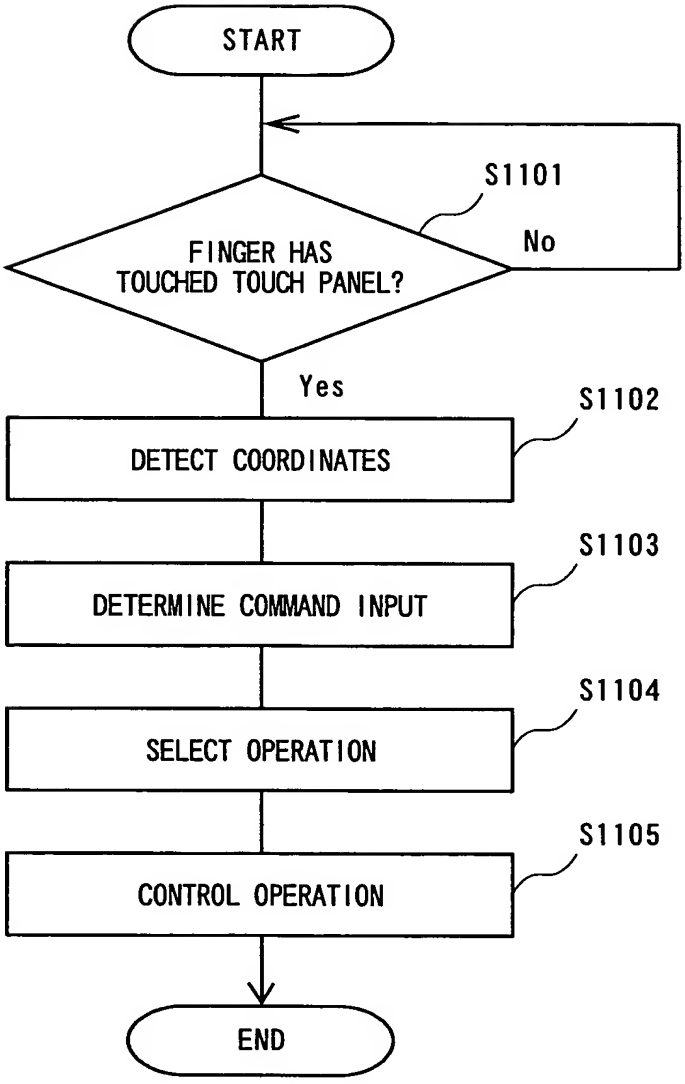


FIG. 11


START
S1101
FINGER HAS TOUCHED TOUCH PANEL?
No
Yes
S1102
DETECT COORDINATES
S1103
DETERMINE COMMAND INPUT
S1104
SELECT OPERATION
S1105
CONTROL OPERATION
END